

Appln. No. 10/502,109

Attorney Docket No. 10555-46

**II. Remarks**

Claims 1-6 stand rejected and claim 7 is objected to. Claim 1 is being cancelled. Claims 2-7 are being amended. Accordingly, after entering this amendment, claims 2-19 remain pending.

Reconsideration of this application in view of the above amendments and the following remarks is respectfully requested.

***Allowable Subject Matter***

The undersigned acknowledges the Examiner's allowance of claims 8-19 and the indication of the allowability of claim 7 if rewritten in independent form to include all the limitations of the base claim and any intervening claims. Accordingly, claim 7 is being re-presented in independent form including the limitation of the base claim (claim 1). Specifically, claim 7 requires a second p-type semiconductor layer with a graded doping concentration along the path of carriers. The graded doping concentration defines a first concentration adjacent to the first p-type semiconductor layer and a second concentration adjacent to the n-type semiconductor layer. The first concentration is greater than the second concentration.

Further, claim 1 has been cancelled, and the dependencies of claims 2-6 have been amended accordingly to depend from claim 7.

In view of the above, it is submitted that claims 2-7, along with claims 8-19, are allowable and such action is respectfully requested.



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***Claim Rejections - 35 U.S.C. §103(a)***

Claims 1-3 have been rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 5,581,087 to Uddin et al. in view of U.S. Patent No. 4,625,225 to Goodfellow et al. (Goodfellow), and claims 4-6 have been rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 4,887,134 to Saito in view of Goodfellow.


As discussed above, claim 7 has been re-written in allowable form including the limitations of claim 1, and claim 1 has been cancelled. Further, claims 2-6 have been amended to depend from claim 7.

Accordingly, reconsideration of the rejections under 35 U.S.C. § 103(a) and the allowance of claims 2-6 are respectfully requested.

***Conclusion***

In view of the above amendments and remarks, it is respectfully submitted that the present form of the claims (claims 2-19) are patentably distinguishable over the art of record and that this application is now in condition for allowance. Such action is respectfully requested.

Respectfully submitted by,

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